

Application No. 10/564,522
Attorney Docket No. 0837/0193PUS1
Response to Office Action dated 10 Oct 2007
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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for controlling a crane, the method comprising giving velocity requests as control sequences from a crane control system to crane drives and reading and storing the velocity requests (V_{ref}) in a control system, whereby each velocity request (V_{ref}) is compared with the previous velocity request and, if the velocity request is changed, an acceleration sequence for the corresponding velocity change is formed and stored, after which, ~~irrespective of whether the velocity request has changed,~~ summing the velocity changes defined by the stored acceleration sequences ~~at a particular time~~ after a particular time interval and adding the obtained sum (dV) to the previous velocity request to achieve a new velocity request (V_{ref2}), which is set as a new control and velocity request for the crane drives, and performing some of the velocity changes defined by ~~the~~ summed acceleration sequences at ~~the~~ a definition time of each selected sequence on each ~~program round, i.e. control step (sample interval)~~ and performing the rest of them as delayed, reading and summing the stored sequence parts to be performed as delayed on a plurality of program rounds.

2. (Currently Amended) The A-method as claimed in claim 1, wherein reading and summing the stored sequence parts to be performed as delayed at a time interval which is many times longer than said control step.

3. (Currently Amended) The A-method as claimed in claim 1, wherein ~~the~~ reading and

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summation interval of ~~the~~ stored sequence parts to be performed can vary.

4. (Currently Amended) The A-method as claimed in claim 1, wherein storing ~~the~~ parts of the sequences to be performed as delayed in a two-element table, wherein a velocity change is defined in the first element and time, after which the velocity change or changes to be performed as delayed is/are added to the velocity request, is defined in the second element.

5. (Currently Amended) The A-method as claimed in claim 1, wherein restricting the change of ~~the~~ velocity actual value so that with respect to the previous change, the change can be, at most, such a velocity change to be calculated with a used control step that equals to ~~the~~ set maximum value for acceleration or deceleration at most.